

After-sales Service

Instructions

Only for use within the Bosch organization. Not to be communicated to any third party.

Testing

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VDT-W-420/1001 B

Ed. 2

replaces VDT-WPP 211/5X

EP/RSV/... EP/RSU(V)... EP/RSU(V)...

Governors for Fuel-Injection Pumps

List of Test Specification Sheets

Notes

Testing of governor EP/RSV is described in the first supplement of VDT-WPP 001/4 B.

The graduated disc of the setting device 0.631 440 006 (EFEP 56 C) is to be set at that value specified for the relevant governor size when the control lever is in the vertical position.

The values in column 3 (with auxiliary springs) can only be reached insofar as the set full-load stop allows. Therefore the travel of the control rod can only be measured from the full-load position downwards.

If, for example, full load delivery is obtained when the control rod travels 10 mm, at the specified speeds only control rod travel from 10 to 0 mm can be measured.

If the indicated values are not obtained, the replacement parts list should be consulted to ascertain whether the correct governor spring, flyweight assembly and - on the EP/RSUV - gear wheels are fitted.

The recently introduced EP/RSV governors, A and B versions, are tested as the previous types.

Example:

EP/RSV 230 A 4/310 will be tested as EP/RSV 230 A 4/310 A or B and vice versa.

The following table indicates the test applications subdivided according to governor size and arranged in order of test.

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The test specifications are subdivided according to governor size and arranged in order of speed

Governor type	Basic setting	Speed range	Idle speed	Test specification or microfiche		
				VDT-WPP..	WP..	Position
<p>EP/RSV.. A.. (for pump size A)</p> <p>EP/RSV.. A ^A/_B 1.. without stop lever as from 301.. with stop lever as from 1001.. without stop lever</p> <p>EP/RSV.. A 0 ^A/_B = Particular combination of spring and flyweight</p>	<p>Control lever vertical</p> <p>Scale 40°</p>	<p>EP/RSV.. A 1 ^A/_B</p> <p>2 200...1350 3 250...1750 4 500...3400</p> <p>5 200...1200 6 250...1600 7 500...3000</p> <p>8 200...1100 9 250...1500 0 500...2900</p> <p>Special type</p>	<p>200 225 250 275 300 325 350 375 400 425 450 500 575 600 650 675 700 1000</p>	<p>211/5-1.. 211/5-12 211/5-12 211/5-43 211/5-44 211/5-64 211/5-67 211/5-72 211/5-78 211/5-82 211/5-83 211/5-85 211/5-87 211/5-89 211/5-90 211/5-91 211/5-92 211/5-93</p>	<p>452</p>	<p>A 5-B 4 B 4-B 6 B 6-D 18 D 19 D 20-F 12 F 13-F 20 F 20-G 4 G 5-G 15 G 16-G 22 G 23 H 1-H 3 H 4-H 7 H 8-H 9 H 10-H 12 H 13 H 14 H 15 H 16</p>
<p>EP/RSV.. B.. (for pump size B)</p> <p>EP/RSV.. B ^A/_B 1.. without stop lever as from 301.. with stop lever</p> <p>EP/RSV.. B 0 ^A/_B = Particular combination of spring and flyweight</p>	<p>Control lever vertical</p> <p>Scale 40°</p>	<p>EP/RSV.. B 1 ^A/_B</p> <p>2 200...1300 3 250...1750 4 500...3400</p> <p>5 200...1150 6 250...1600 7 500...3000</p> <p>8 200...1050 9 250...1500 0 500...2900</p> <p>Special type</p>	<p>200 225 250 300 350 400 500 600</p>	<p>211/5-100.. 211/5-104 211/5-106 211/5-112 211/5-114 211/5-115 211/5-116 211/5-117</p>	<p>452</p>	<p>I 1-I 8 I 9, I 10 I 11-I 22 I 23-I 24 K 1 K 2 K 3 K 4</p>
<p>EP/RSV.. M.. /.. (for pump size M; original type)</p> <p>EP/RSV.. M.. /1</p>	<p>Control lever vertical</p> <p>Scale 30°</p>	<p>EP/RSV.. M 1/1</p> <p>2 250...1750 3 350...2200 4 500...3100</p> <p>5 250...1550 6 350...2100 7 500...3000</p> <p>8 250...1350 9 350...1900 0 500...2650</p>	<p>250 275 300 350 375 400 700</p>	<p>211/5-120 211/5-123 211/5-124 211/5-125 211/5-126 211/5-127 211/5-128</p>	<p>453</p>	<p>A 5-A 9 A 10 A 11 A 12 A 13 A 14 A 15</p>
<p>EP/RSV.. M ^A/_B .. (for pump size M ^A/_B)</p> <p>EP/RSV.. M ^A/_B 101.. without stop lever as from 301.. with stop lever</p> <p>EP/RSV.. M 0 ^A/_B = Particular combination of spring and flyweight</p>	<p>Control lever vertical</p> <p>Scale 40°</p>	<p>EP/RSV.. M 1 ^A/_B</p> <p>2 200...1350 3 250...1750 4 500...3400</p> <p>5 200...1250 6 250...1600 7 500...3000</p> <p>8 200...1100 9 250...1550 0 500...2900</p> <p>Special type</p>	<p>250 275 300 350 375 400 500 575</p>	<p>211/5-129 211/5-133 211/5-134 211/5-137 211/5-139 211/5-139 211/5-140 211/5-140</p>	<p>453</p>	<p>A 16-A 23 B 1, B 2 B 3-B 7 B 8-B 11 B 12 B 12, B 13 B 14 B 15</p>
<p>EP/RSV.. P.. (for pump size P)</p> <p>EP/RSV.. P.. /1.. without stop lever as from 301.. with stop lever as from 800.. with shutoff device working directly on the control rod</p> <p>EP/RSV.. P 0/.. = Particular combination of spring and flyweight</p>	<p>Control lever vertical</p> <p>Scale 40°</p>	<p>Speed range as for EP/RSV.. A</p>	<p>200 250 300 350 400</p>	<p>211/5-150.. 211/5-152.. 211/5-155.. 211/5-161.. 211/5-164</p>	<p>453</p>	<p>C 1-C 4 C 5-C 10 C 11-C 21 D 1-D 6 D 7, D 8</p>
<p>EP/RSUV.. A.. with gearbox for pump size A</p> <p>EP/RSUV.. A ^A/_B 1.. without stop lever A 301.. with stop lever</p> <p>EP/RSUV.. A 0 A.. = Particular combination of spring and flyweight</p>	<p>Control lever vertical</p> <p>Scale 40°</p>	<p>EP/RSUV.. A 1/..</p> <p>2/.. 65...445 3/.. 95...660 0/.. 135...930</p> <p>Special type</p>	<p>200 250</p>	<p>211/6-1 211/6-1</p>	<p>453</p>	<p>E 1 E 1</p>

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Governor type	Basic setting	Speed range	Idle speed	Test specification or microfiche			
				VDT-WPP..	WP..	Position	
EP/RSUV.. B (BV).. with gearbox for pump size B, BV	Control lever vertical Scale 35°	EP/RSUV.. B 1 A..	70...420	70	211/6-10	453	E 2
EP/RSUV.. A 1.. without stop lever		2	90...510	90	211/6-10		E 3
		3	110...610	150	211/6-11		E 4, E 5
EP/RSUV.. A 301.. with stop lever		4	150...780	175	211/6-12		E 6, E 7
		5	175...900	200	211/6-13		E 8-E 11
EP/RSUV.. B 0 A.. = particular combination of spring and flyweight		6	70...420	225	211/6-15		E 12
		7	90...510	250	211/6-15		E 12-E 17
B 1 A.. } soft spring = small speed droop		8	110...610	300	211/6-18		E 18-E 21
		9	150...780				
10		175...900					
		0	Special type				
EP/RSUV.. P.. with gearbox for pump size P	Control lever vertical Scale 35°	EP/RSUV.. P..		150	211/6-25	453	F 1
EP/RSUV.. P 1-10/1.. without stop lever		200	211/6-25		F 1		
		225	211/6-26		F 2, F 3		
EP/RSUV.. P 301.. with stop lever		250	211/6-27		F 4-F 8		
EP/RSUV.. P 0.. = particular combination of spring and flyweight		300	211/6-30		F 9-F 13		
	325	211/6-33		F 14			
	350	211/6-33		F 14			
EP/RSUV.. Z(ZV).. with gearbox for pump size Z, ZV	Control lever vertical Scale 40° Scale 35° Scale 35°	EP/RSUV Z 1/..	100...465	EP/RSUV.. Z(ZV)..			
EP/RSUV.. Z(ZW) 1/.. } Large governor for PE 6... 12 Z		2	150...610	50	211/6-35	453	G 1
		3	200...770	100	211/6-41		G 7, G 8
		4	250...1050	125	211/6-41		G 8
		5	400...1500	150	211/6-35		G 1, G 2
		6	150...650	165	211/6-36		G 3
		21	85...360	200	211/6-41		G 8
22 } Small governor for PE 2... 4 Z		22	105...440	225	211/6-36		G 4
		23	125...520				
		24	150...650				
25 } soft spring = small speed droop		25	175...750				
		26	225...900				
31 } Small governor for PE 2... 4 Z	31	85...360	EP/RSUV.. ZW(M)..				
	32	105...440	100	211/6-40	453	G 5	
	33	125...520	150	211/6-40		G 5, G 6	
	34	150...650	180	211/6-41		G 8	
35 } hard spring = greater speed droop	35	175...750	200	211/6-40		G 5	
	36	225...900	250	211/6-40		G 6	
EP/RS.. A.. Maximum/minimum speed governor for pump size A	Control lever vertical Scale 40°			200	211/6-50	453	I 1
EP/RS.. /.. A /1.. without stop lever		250	211/6-51		I 2, I 3		
		275	211/6-52		I 4		
A.. A 1.. without stop lever		325	211/6-53		I 5		
A.. B 1.. without stop lever		500	211/6-54		I 6		
A.. B 301.. with stop lever							
EP/RS.. /.. A 0.. = particular combination of spring and flyweight							
Control lever deflection of at least 75° must be reached							
EP/RSU.. BV(M).. Maximum/minimum speed governor for pump size BV with stop lever and gearbox	Control lever vertical Scale 35°				211/6-45	453	H 1

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